PATENT COOPERATION TREATY

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REC'D	28	DEC	2005.
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION See Form PCT/IPEA/416		CT/IPEA/416
RAJ-0013.PCT	International filing date (day/n	nonth/year)	Priority date (day/month/year)
nternational application No.		11.10.2003	
	10.10.2004		
International Patent Classification (IPC) or	national classification and	-	1
See Supplemental Box	·		
Applicant	_		Į.
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	inction report 6	stablished by th	is International Preliminary Examining 36.
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2. This REPORT consists of a total of		cluding this cove	er sheet.
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Supplements	al Box.		1 of electronic carrier(s))
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form only, as indica Administrative Inst	ructions).		<u> </u>
4. This report contains indications	relating to the following items	s:	
Box No. I Basis	of the report		
Box No. II Priori	ity		11-1-12-
Box No. III Non-establishment of opinion wi		h regard to novelty, inventive step and industrial applicability	
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_	soned statement under Article	35(2) with regar	d to novelty, inventive step or industrial
appli	icability; citations and explana	tions supporting	Such Statement
Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application			
Box No. VIII Cert	tain observations on the interne	anonai appiican	
C. J. J. C. Jamond		Date of comple	tion of this report
Date of submission of the demand			
10.05.2005		24.11.20	005
Name and mailing address of the IPEA/SE		Authorized officer	
Patent- och registreringsverk	ket		
Box 5055 S-102 42 STOCKHOLM		Björn L	indkvist/MP
9-102 42 Broadion.	88	Telephone No	.+46 8 782 25 00

International application No.

PCT/SE2004/001445

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of Cover sheet

B65D 90/38 (2006.01) B65D 88/12 (2006.01)

B65D 88/74 (2006.01)

Form PCT/IPEA/409 (Supplemental Box) (April 2005)

41.

International application No.

PCT/SE2004/001445

Box	No. I		Basi	is of the report	1
1.	With	rega	ard to t	the language, this report is based on:	
	\boxtimes			national application in the language in which it was filed	
				ation of the international application into s the language of a translation furnished for the purposes of:	1
]		international search (Rules 12.3(a) and 23.1(b))	
		ì		publication of the international application (Rule 12.4(a))	1
			Ħ·	international preliminary examination (Rules 55.2(a) and/or 55.3(a))	١.
2.	furn	ishe are	ed to th not an	to the elements of the international application, this report is based on (replacement sheets which have been the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed in the properties of this report):	n '''
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Ì				the description, pages	
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	4.		mac	is report has been established as if (some of) the amendments annexed to this report and listed below had not ade, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (2(c)).	Rule
l			Γ	the description, pages	
			Ē	the claims, Nos.	
١			Γ	the drawings, sheets/figs	
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Form PCT/IPEA/409 (Box No. I) (April 2005)

International application No.

PCT/SE2004/001445

	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
Box No. V	Reasoned statement under Article 35(2) with regard to hoverty, inventor of
DUZ I (U.)	citations and explanations supporting such statement

1. Statement

tatement		•	YES
Novelty (N)	Claims Claims	3-15, 17-21 1, 2,16, 22	NO
Inventive step (IS)	Claims Claims	3. 4.7-12. 18-21 1. 2.5. 6. 13-17. 22	YES NO
Industrial applicability (IA)	Claims Claims	1-22	YES NO

2. Citations and explanations (Rule 70.7)

Most relevant documents cited in the International Search Report:

D1: US 4499820 A

D2: US 3568588 A

D3: US 3332336 A

D4: US 2643602 A

D5: US 2040798 A

D6: US 3456834 A

D7: WO 0226594 A1

Explanation

The invention relates to an apparatus for attenuating the exchange of air in a freight container with the surrounding atmosphere as a result of pressure differences. By using the invented apparatus no damp will be formed that would be harmful to humid-sensitive cargo.

Claim 1

D1 discloses a breather bag construction for a sealed storage structure, whereby the bag regulates the pressure in the storage structure, which is suitable for storing for instance grain. It is well known that such products should be stored at low humidity. The known construction comprises a flexible bag 2 that delimits a volume in the storage structure. Grain in the storage structure is provided outside the bag. The volume inside the bag 2 is connected to the atmospheric pressure while the outer part of the bag is influenced by the pressure inside the storage structure.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: \boldsymbol{V} .

The bag 2 will contract or expand depending on the pressure differences and will thus level out the pressure differences. Several bags 2 can be used in order to increase the effectiveness. D2-D4 disclose similar devices.

Claim 1 in the application states that the invented apparatus is used in a freight container. The breather bag construction in D1 appears to be well suited for a freight container even if this is not mentioned. Also the devices in D2-D4 appear to be well suited for freight containers.

The apparatus according to claim 1 is thus already known from either of D1-D4.

D5 (see claim 1 and the figures) discloses a jar for edible products. The jar, which is well suited for being transported and is a kind of container, is provided with a flexible and airtight sealing member over its opening. The sealing member protrudes inwardly or outwardly depending on the pressure difference between the atmospheric pressure and the pressure in the jar. D5 is of special interest for the embodiment shown in figures 9-11 and is considered to anticipate the apparatus according to claim 1 because of its general wording.

The apparatus according to claim 1 therefore lacks novelty.

Claim 22

As already mentioned the jar in D5 is a kind of container that can be transported. The freight container according to claim 22 is thus known from D5 and therefore lacks novelty.

Furthermore, claim 22 is considered to lack inventive step for the following reasons:

D6 (see abstract; column 1, lines 37-46; and column 2, lines 38-45) discloses a condensation-deterring container, which can be a mobile container. The container is provided with an apparatus for deterring the formation of condensation in containers, which might hold for instance grain.

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Supplemental Box

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D7 (see page 4, lines 13-21) discloses a freight container that is provided with a flexible plastics sheet 7 that extends across the access opening and greatly seals the atmosphere in the container from the outside when the doors are closed.

As mentioned earlier the breather bag construction in, e.g., D1 is considered well suited for freight containers. The person skilled in the art would realise that the container known from either of D6 or D7 easily can be modified with such a breather bag construction.

The container according to claim 22 therefore lacks inventive step over D6 or D7 in combination with e.g. D1.

Claims 2 and 16

The apparatus according to claims 2 and 16 is considered to lack novelty over D1 or D2.

Claims 5,6,13-15 and 17

The apparatus according to claims 5,6,13-15 and 17 is considered obvious to the person skilled in the art in light of either of D1-D4.

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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

According to PCT Article 6 a claim shall be clear and concise. Claims 16, 20 and 21 seem unclear.

How can the claimed apparatus comprise multiples of itself ? It is not clear how the apparatus in claim 16 is construed. (It is however understood that a container may be provided with several apparatuses which together form a first volume)

Claims 20 and 21:

In claims 20 and 21 the feature "fixation means" is mentioned. It is not clear if this feature refers to the fixation means for sealing the membrane, mentioned in claim 18, or the fixation means mentioned in claim 8.

Claims shall preferably be provided with reference signs (PCT Rule 6.2(b)).

It appears appropriate to formulate at least the independent claims with a preamble and a characterizing portion in the way suggested in PCT Rules 6.3(b)(i) and 6.3(b)(ii).